



# UNITED STATES PATENT AND TRADEMARK OFFICE

TP  
UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/608,298	06/27/2003	Cesar A. Galindo-Legaria	MSFT-1795 (303912.01)	9011
41505	7590	07/27/2006	EXAMINER	
WOODCOCK WASHBURN LLP (MICROSOFT CORPORATION) ONE LIBERTY PLACE - 46TH FLOOR PHILADELPHIA, PA 19103			THAI, HANH B	
			ART UNIT	PAPER NUMBER
			2163	

DATE MAILED: 07/27/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	10/608,298	GALINDO-LEGARIA ET AL.
	Examiner Hanh B. Thai	Art Unit 2163

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) Responsive to communication(s) filed on amendment filed 4/27/06.
- 2a) This action is **FINAL**.                                   2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) Claim(s) 1-26 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-26 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:
  1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____.
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____.

## **DETAILED ACTION**

1. The following is a Non-final Office Action in response to the communication received on April 27, 2006. Independent claims 1 and 11 have been amended. Claims 1-26 are pending in this application.

### ***Response to Arguments***

2. Applicant's arguments regarding "a join between the parameter table and the subscription template to generate a notification query" of claims 1, 1 and 20 have been fully considered but they are not persuasive.

Seshadri clearly discloses a join operation is performed on subscription template (subscription 1306 "company A"; "stocks symbol"; "stockvalue") and notification "table" to a notification query (see ¶[0126], lines 9-17 and ¶[0127], Seshadri).

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-10 are rejected under 35 U.S.C. 102(e) as being anticipated by Berenson et al. (US 6,356,887 B1).

Regarding claims 1 and 10, Berenson discloses a method for providing notifications of changes in a database system comprising:

- creating a subscription template (311, Fig.3B and col.2, lines 1-4, Berenson discloses “parameterized query form” corresponding to “a subscription template”);
- parameterizing the subscription template to generate a parameter table (311-313, Fig.3B; abstract; col.2, lines 1-4); and
- performing a join between parameter table and parameterized subscription template to generate a query (339, Fig.3C; abstract; col.2, lines 1-4 and col.6, lines 16-24, Berenson discloses replace the constant values in a query with parameters to form a parameterized execution plan for the query reads on the claimed “a join between parameter table and parameterized subscription template to generate a query”).

Regarding claim 2, Berenson discloses executing an action upon performing the join, wherein the action comprises any of: performing a query and communicating data from the database system to cooperating computing applications (col.2, lines 1-11 and col.5, lines 6-19).

Regarding claim 3, Berenson discloses executing the query (col.6, lines 16-18).

Regarding claim 4, Berenson discloses retrieving data from the database system (col.6, lines 16-24).

Regarding claim 5, Berenson discloses communicating the data retrieved from the database system to cooperating services and/or computing applications (abstract; col.2, lines 1-4 and col.6, lines 16-24).

Regarding claim 6, Berenson discloses storing a subscription identification value (col.6, lines 16-24).

Regarding claim 7, Berenson discloses associating the subscription identification value with a subscriber (col.5, lines 20-65).

Regarding claim 8, Berenson discloses providing notifications to subscribers (col.5, lines 20-65; cl.6, lines 16-24 and col.8, lines 20-23).

Regarding claim 9, Berenson discloses adding additional parameters to the parameter table, wherein the additional parameters are not based on the created subscription template (col.5, lines 20-65; cl.6, lines 16-24 and col.8, lines 20-23).

4. Claims 11-26 are rejected under 35 U.S.C. 102(e) as being anticipated by Seshadri et al. (US Pub. 2004/0002958 A1).

Regarding claim 11, Seshadri discloses a system to increase subscription scalability (abstract of Seshadri) in an electronic database environment comprising:

- a database system (database “140”, Fig.1), the database system capable of accepting and processing subscriptions by cooperating services and/or computing applications, the subscriptions offering query templates for execution on database system to retrieve desired data (Fig.1 and ¶ [0118]; [0272]; [0358] and [0402]);
- a notification manager (notification “130”, Fig.1), the notification manager operating on the database system to identify changes in data in the database system and to provide notifications to the cooperating services and/or computing applications of database system changes (Fig.1 and ¶[0078]; [0600] and [0646]; and
- an optimization module, the optimization module using queries originating from subscribers to create subscription templates (¶ [0118]; [0272]; [0358] and [0402]) which are parameterized to create a parameter table (¶ [0271]-[0272]; [0278]; [0358] and [0401]-[0404]), wherein the parameter table is joined with the subscription

template to generate a notification query (¶[0126], lines 9-17 and ¶[0127]; [0271]-[0272]; [0401]-[0402]).

Regarding claim 12, Seshadri discloses the optimization module comprises a computing application (¶[0401]-[0406]).

Regarding claim 13, Seshadri discloses a communication means, the communication means for use in communicating data between the database system and the cooperating services and/or computing applications (¶[0401]-[0406]).

Regarding claim 14, Seshadri discloses a spool, the spool used to spool subscription queries (abstract and ¶[0413]).

Regarding claim 15, Seshadri discloses a filter, the filter used to filter out subscription queries (¶[0102]; [0111] and [0554]).

Regarding claim 16, Seshadri discloses an execution module, the execution module executing the notification query on the database system (Fig.1-2 and ¶[0401]-[0406])

Regarding claim 17, Seshadri discloses the notification manager and the database system reside in the same data environment (Fig.1-2 and corresponding text).

Regarding claim 18, Seshadri discloses the notification manager, the database system, and the optimization module reside in the same environment (Fig.5, Fig.14; ¶[0065] and [0181]).

Regarding claim 19, Seshadri discloses wherein the parameter tables comprise any of query constants, subscriber identification information, and subscriber routing information (¶[0264] and [2711]).

Regarding claims 20 and 26, Seshadri discloses a method for increasing subscription scalability in electronic data environments comprising: accepting subscriptions from cooperating services and/or computing applications by a database system; processing the subscriptions to generate query templates, the query templates having queries; parameterizing the query templates to generate a parameter table (¶ [0271]-[0272]; [0278]; [0358] and [0401]-[0404]); and joining the parameter table with the query templates to generate a notification query (¶[0126], lines 9-17; ¶[0127]; [0271]-[0272]; and [0401]-[0402]).

Regarding claim 21, Seshadri discloses spooling the query templates (abstract and ¶[0413]).

Regarding claim 22, Seshadri discloses filtering the query templates (¶[0102]; [0111] and [0554]).

Regarding claim 23, Seshadri discloses executing the notification query (¶ [0401]-[0406])

Regarding claim 24, Seshadri discloses the results of the notification query to the cooperating services and/or computing applications (¶[0401]-[0406]).

Regarding claim 25, Seshadri discloses adding parameters to the parameter table not originating from the query templates (¶ [0271]-[0272]; [0401]-[0402]).

### ***Conclusion***

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Bhargava et al. (US 5,832,477) disclose method and apparatus for reordering complex SQL queries containing inner and outer join operations.

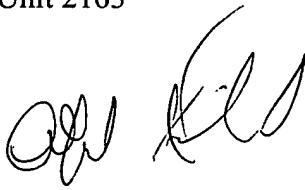
6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hanh B. Thai whose telephone number is 571-272-4029. The examiner can normally be reached on 8 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on 571-272-1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Hanh B Thai  
Examiner  
Art Unit 2163

July 21, 2006



ALFORD KINDRED  
PRIMARY EXAMINER